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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/628,334	07/29/2003	Wei-Liang Chen	MR2561-129	6072	
4586	590 12/14/2005		EXAM	EXAMINER	
ROSENBERG, KLEIN & LEE			MCKINNON, TERRELL L		
3458 ELLICO	IT CENTER DRIVE-S	UITE 101			
ELLICOTT C	TY, MD 21043		ART UNIT	PAPER NUMBER	
			3753		

DATE MAILED: 12/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		(x)	•
	Application No.	Applicant(s)	
	10/628,334	CHEN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Terrell L. Mckinnon	3753	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior. - Failure to reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a rd will apply and will expire SIX (6) MOI ute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 23	September 2005.		
2a)⊠ This action is FINAL. 2b)☐ Th	nis action is non-final.		
3) Since this application is in condition for allow	•	· · · · · · · · · · · · · · · · · · ·	
closed in accordance with the practice under	r Ex parte Quayle, 1935 C.[). 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-9 and 12-17 is/are pending in the	application.		
4a) Of the above claim(s) is/are withdr	rawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) 1-6 and 12-16 is/are rejected.			
7) Claim(s) <u>7-9 and 17</u> is/are objected to. 8) Claim(s) are subject to restriction and	/or election requirement		
and daughter to receive and	or orocaen roquiroment.		
Application Papers			
9) The specification is objected to by the Exami			
10)⊠ The drawing(s) filed on 29 July 2003 is/are:			
Applicant may not request that any objection to the			11
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	•	•)).
Priority under 35 U.S.C. § 119		•	
12) ☐ Acknowledgment is made of a claim for foreig	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1. Certified copies of the priority docume	nts have been received.		
2. Certified copies of the priority docume		· · · — —	
3. Copies of the certified copies of the pr		received in this National Stage	
application from the International Bure * See the attached detailed Office action for a li		rappiyed	
See the attached detailed Office action for a li	st of the certified copies not	received.	
Attachment(s) 1) Notice of References Cited (PTO-892)	A) Intension	Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	s)/Mail Date	
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	5) Notice of 6) Other:	Informal Patent Application (PTO-152)	

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Response to Amendment

Receipt is acknowledged of applicant's amendment filed September 23, 2005. Claims 10-11 have been canceled without prejudice. Claims 1-9 and 12-17() are pending and an action on the merits is as follows.

Applicant's arguments with respect to claims 1-6 and 12-16 have been considered but are most in view of the new grounds of rejection.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-6 and 12-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stolz et al. (U.S. 6,226,184) in view of Vanek et al. (U.S. 6,566,879).

Stolz discloses a mounted heat sink comprising:

- a base (18), and a heat dissipation pad (40) being flexible and biased to a cambered shape;
- the heat dissipation pad having a fixing portion (44) coupled to the base:
- wherein the flexible portion of the heat dissipation pad deflectable
 to a substantially flat configuration when captured to a CPU;

- the fixing device fixing the heat sink module in a portable
 electronic device, wherein one side of the heat dissipation pad is
 positioned to one side of the base;
- it would have been very obvious that heat dissipating device can be used in a portable electronic device is a notebook computer or any other electronic device; and
- a heat dissipation paste (38) is applied between a heat conducting plate and the heat dissipation pad.

Stolz's invention discloses all of the claimed limitations from above except for a flexible portion extending deflectively therefrom to terminate at a free end; a heat conducting plate being fixed to the base and against the heat dissipation pad tightly when the heat sink module installed in a portable electronic device; and a frame for supporting the heat generating device.

3. However, Vanek teaches the use of a flexible portion extending deflectively therefrom to terminate at a free end; a heat conducting plate being fixed to the base and against the heat dissipation pad tightly when the heat sink module installed in a portable electronic device; and a frame for supporting the heat generating device.

Given the teachings of Vanek, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the a mounted heat sink of Stolz with the use of a flexible portion extending deflectively therefrom to terminate at a free end; a heat conducting plate being fixed to the base and against the heat dissipation pad

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tightly when the heat sink module installed in a portable electronic device; and a frame for supporting the heat generating device:

Doing so would provide a safe and reliable means of supporting and thermally transferring heat away from heat generating electronic devices.

Allowable Subject Matter

4. Claims 7-9 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments filed September 23, 2005 have been fully considered but they are most in view of the new rejection as stated above.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following references cited on the USPTO 892 discloses related limitations of the applicant's claimed and disclosed invention.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terrell L. Mckinnon whose telephone number is 571-272-4797. The examiner can normally be reached on Monday -Thursday and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Blau can be reached on 571-272-4406. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Terrell L Mckinnon Primary Examiner Art Unit 3753 December 12, 2005